



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#3
B1
6-28-9

International patent application of

Matsumoto, et al.

Serial No.: 09/986,109

Group Art Unit: 2871

Filing Date: November 7, 2001 Examiner: Unknown

For: LIQUID CRYSTAL DISPLAY DEVICE AND METHOD FOR
MANUFACTURING SAME AND COLOR FILTER SUBSTRATE

Commissioner of Patents
Washington, D.C. 20231

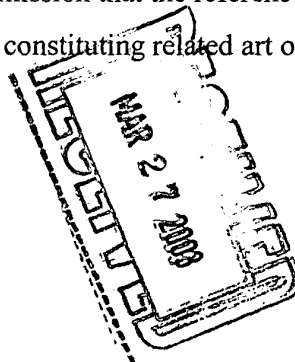
INFORMATION DISCLOSURE STATEMENT

Sir:

Under the provisions of 37 CFR §1.97 through §1.99 and pursuant to Applicant's duty of disclosure under 37 CFR §1.56, Applicants respectfully bring the following documents cited in the Japanese Office Action and listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. Copies of the listed documents are provided herewith for the convenience of the Examiner. Further, English language abstracts are attached to the references.

In compliance with the requirements of 37 CFR §1.98(a)(3), as a concise statement of relevance, as it is presently understood by the individual designated in 35 U.S.C. §1.56(c) most knowledgeable about the content of the information, the undersigned attorney of record submits a translation of portions of an official action by a foreign examiner in which the reference was cited. No independent analysis of the reference, the accuracy of the statement of the foreign examiner or the claims of the foreign application under the laws of that country or the United States relative to the subject matter claimed in the present application has been made, the present understanding of the contents thereof by the undersigned being based on the translation of the foreign examiner's comments submitted herewith.

This citation does not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.



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Serial No. 09/986,109
Docket No. N01300US

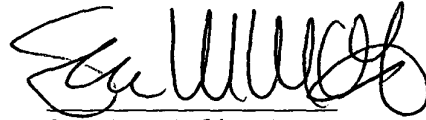
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I hereby certify that each item of information contained in this Information Disclosure Statement was the first citation of that item by a foreign patent office in a counterpart foreign application, which occurred not more than three months prior to the filing of this statement.

It is respectfully requested that the listed references be considered by the Examiner and formally made of record in this application.

Please charge any deficiencies in fees and credit any overpayment of fees to Attorney's Deposit Account No. 50-0481.

Respectfully submitted,



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Date: 3/25/03

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INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.
N01300US

SERIAL NO.
09/986,109

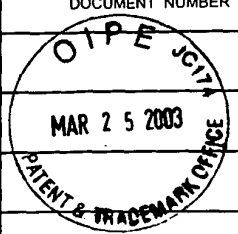
Matsumoto, et al.

FILING
November 7, 2001

GROUP
2871

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE



FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	2000-305089	11/02/2000	Japan			ABS	
	05-19267	01/29/1993	Japan			ABS	
	11-344700	12/14/1999	Japan			ABS	
	06-202140	07/22/1994	Japan			ABS	
	60-182414	09/18/1985	Japan				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

			Japanese Office Action dated February 4, 2003 with partial translation

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

ATTY DOCKET NO.

N01300US

SERIAL NO.

09/986,109

Matsumoto, et al.

FILING

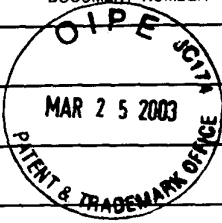
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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	2001-117103	04/27/2001	Japan			ABS	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

NIS.044

Record (See the Reference Citation List to obtain the citation)

Claims 1, 3, 5, 7 and 13-16
Citations: Any of Citation 1-3.
Claims 2, 4, 6 and 8
Citations 1-4
Claims 9-12
Citations 1-5

Remarks:

In addition to the fact that, since there is no definition relating to the "columnar concentration of a columnar spacer" such as that described in Reason 1, there is no recognizable clear difference between the invention of the present application and the invention recorded in Citations 1-3. Hence, the invention of the present application could be easily conceived by one skilled in Art from the inventions recorded in Citations 1-3.

Claims 2, 4, 6 and 8

A gate line inversion drive format and a dot inversion drive format is a drive method of a general (ref. Citation 4) liquid crystal display element.

Claims 9-12

The invention relating to Claims 9-12 would be easy to one skilled in the Art by applying construction (for example, Citation 4) in which a columnar spacer is arranged on the TFT gate electrode of the TFT substrate to Citations 1-3.

Reference Citation List

Citation 1:

Japanese Laid Open Patent Publication 2000-305089

Citation 2:

Japanese Laid Open Patent Publication Hei 5-19267

Citation 3:

Japanese Laid Open Patent Publication Hei 11-344700

Citation 4:

Japanese Laid Open Patent Publication Hei 6-202140

Citation 5:

Japanese Laid Open Patent Publication Sho 60-182414

Record of the Examination Results relating to Documents of
the Prior Art

- Examined Technical Field: IPC 7th Edition

G02F1/1339

G02F1/133

Documents of the Prior Art

Japanese Laid-Open Patent Publication 2001-117103

The record of the examination results relating to documents of the prior art does not constitute the grounds for rejection.